

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (currently amended) An electronic endoscope apparatus, including:

a first electronic endoscope having a first imaging device;

a second electronic endoscope having a second imaging device of which pixel density is different from that of said first image device, and having a second drive pulse generation circuit for generating drive pulses to drive the second imaging device; and

a processor unit for connecting said first (10A) or second electronic endoscope,

wherein the processor unit comprises:

a first drive pulse generation circuit for generating drive pulses to drive said first imaging device;

a selection circuit for activating the second drive pulse generation circuit when said second electronic endoscope (10B) is connected;

a synchronization circuit for forming synchronizing signals which are synchronous with the drive pulse of said second drive pulse generation circuit ~~and~~;

a signal processing circuit for performing image

processing on the output signal from said first imaging device when said first electronic endoscope is connected, and for performing image processing on the output signal from the second imaging device by inputting the synchronizing signals from said synchronization circuit when the second electronic endoscope is connected; and

wherein a determination circuit for automatically determining the type of the electronic endoscope which is connected to said processor unit is provided, and said selection circuit and synchronization circuit are operated based on the determination of the determination circuit.

2. (cancel)